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(71)Applicant: TOPPAN PRINTING CO LTD

SHOWA DENKO KK

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(72)Inventor: HIRAYAMA SHIGERU

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WATANABE JIRO ISHIGURO MASA SUGITA SHUICHI

KAMATA HIROTOSHI

(54) IMAGE FORMING SHEET, IMAGE FORMING METHOD USING SAME AND SIMPLE PROOF OBTAINED BY SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To easily form a color image from a digital signal at a low cost by incorporating a shelf stabilizer consisting of a disimidazole compd. and a tri (substd.)phenylsulfonium salt each having a specified structure and a dye complex type photopolymn. initiator into a photosensitive layer.

SOLUTION: This image forming sheet has a photosensitive layer consisting essentially of a coloring material, a polymerizable compd. having an ethylenically unsatd. group, a hot-adhesive binder made of an org. polymer having no photopolymerizability and a photopolynmn. initiator made of a complex of a near IR absorbing cationic dye with a borate anion represented by formula I on the substrate and a shelf stabilizer consisting of a bisimidazole compd. represented by formula II and a tri(substd.)phenylsulfonium salt represented by formula III is contained in the photosensitive layer. In the formula I, D+ is a cationic dye having light absorption in a near IR region and each of R1-R4 is a residue such as alkyl or aryl. In the formula II, each of L1-L3 is aryl or substd.

R₁ R₂ D⁺

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aryl. In the formula III, X- is an arbitrary anion such as BF- or PF- and each of L1-L3 is H or an arbitrary substituent.